OPERATING SUMMARY

TOWN OF PARIS

WATER POLLUTION CONTROL PLANT

1974

Ontario

MINISTRY OF THE ENVIRONMENT

MINISTER
Honourable William G. Newman

DEPUTY MINISTER
E. Biggs

ASSISTANT DEPUTY MINISTER
REGIONAL OPERATIONS
J. Barr

REGIONAL OPERATIONS DIVISION

DIRECTOR, WEST-CENTRAL REGION
C. Macfarlane

MANAGER, UTILITY OPERATIONS
B. Hansler

PARIS

WATER POLLUTION CONTROL PLANT

operated for

THE TOWN OF PARIS

by the

MINISTRY OF THE ENVIRONMENT

1974 ANNUAL OPERATING SUMMARY

prepared by

Plant Performance Unit

TECHNICAL SERVICES BRANCH

T. Cross, Director

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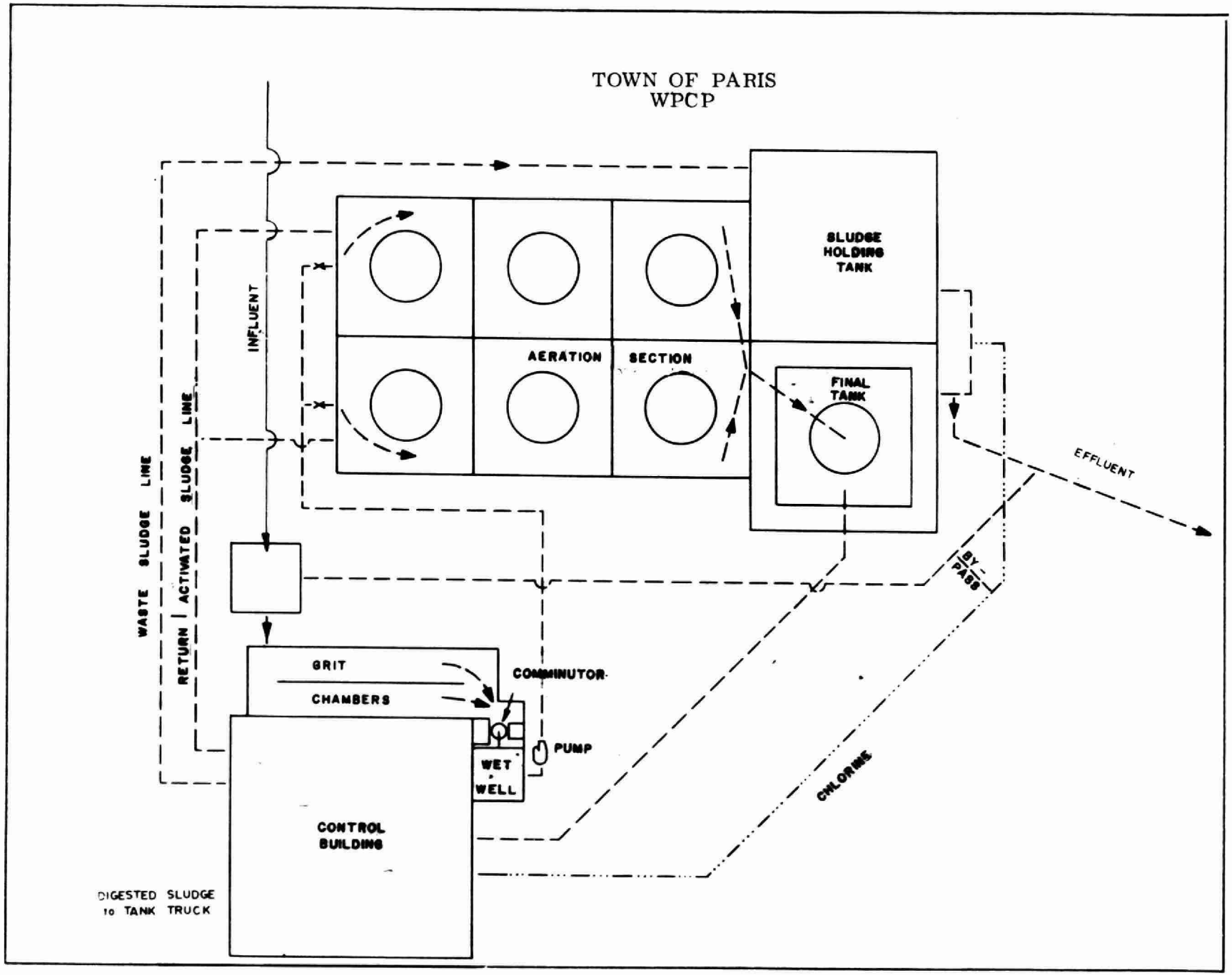

TOWN OF PARIS
WPCP
SLUDGE HOLDING TANK
AERATION
SECTION
FINAL TANK
INFLUENT
WASTE SLUDGE LINE
RETURN ACTIVATED SLUDGE LINE
EFFLUENT
BY PASS
GRIT
CHAMBERS
COMMINUTOR
PUMP
WET WELL
CONTROL BUILDING
CHLORINE
DIGESTED SLUDGE
to TANK TRUCK

DESIGN DATA

PROJECT Town of Paris WPCP

PROJECT NO.	2-0034-59
TREATMENT	Extended Aeration
DESIGN FLOW	0.50 mgd
DESIGN POPULATION	8,600
BOD - Raw Sewage	200 mg/l
SS - Raw Sewage	170 mg/l

PRETREATMENT

Grit Removal

Type: Channel; manually cleaned
Size: Two 25 X 2½ X 2½'

Comminution

Type: Jones & Atwood (1)

RAW SEWAGE PUMP

Type: Worthington
Size: One 335 gpm @ 12' tdh

SECONDARY TREATMENT

Aeration Tanks

Type: Mechanical; single-pass
Size: Two 96 X 32 X 10' (372,000 gal)
Retention: 17.9 hr

Aerators

- Ames Crosta (6)

Secondary Sedimentation

Type: Dorr
Size: Two 36 X 36 X 9' swd
(145,000 gal)
Retention: 3.5 hr
Loading: Surface, 387 gal/ft^2/day
Weir, 38,000 gal/ft/day
(one tank)

CHLORINATION

Type: W & T
Size: One 400 lb/day

Chlorine Contact Chamber

- in outfall

OUTFALL

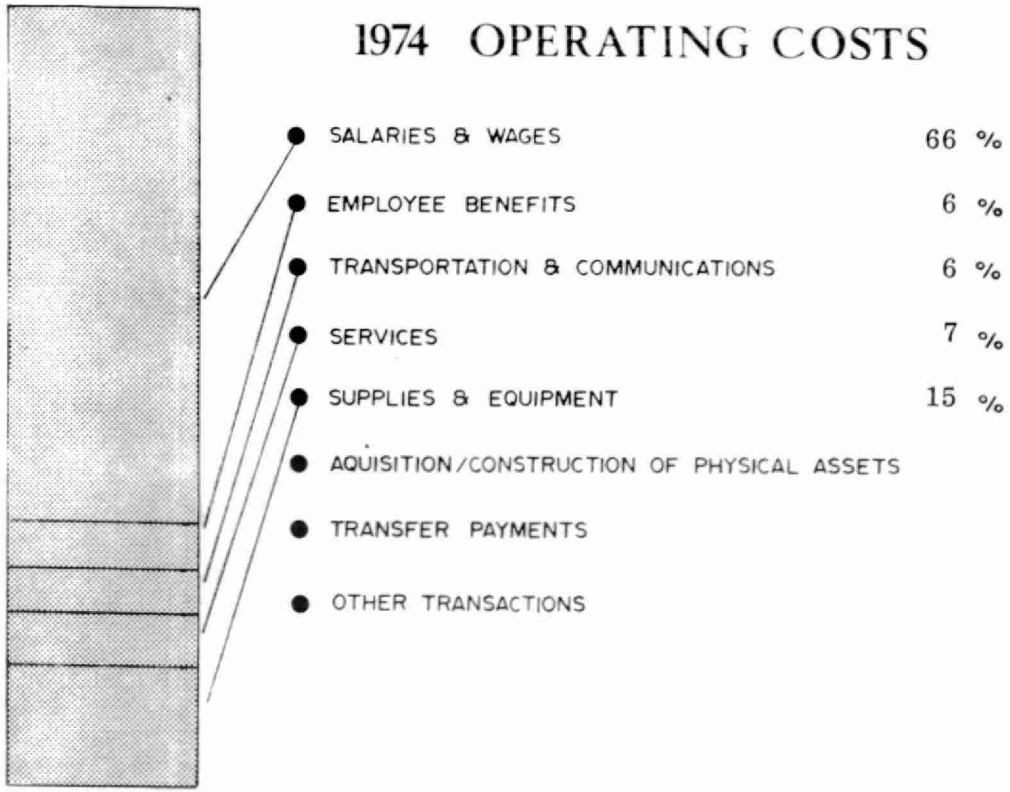
- to Grand River

SLUDGE HANDLING

Holding Tank

- one of the sedimentation tanks, without mechanism, is provided as a holding tank.

ANNUAL COSTS



YEARLY OPERATING COSTS

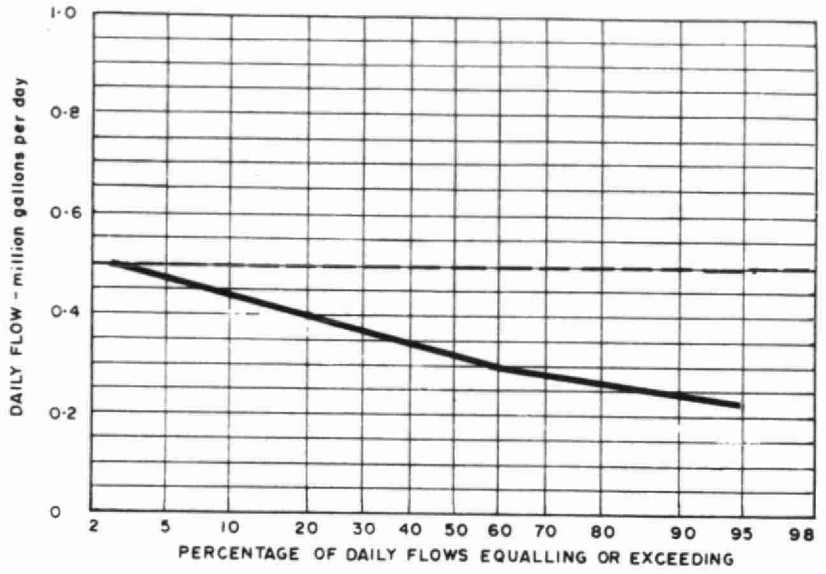
YEAR	SEWAGE TREATED in million gallons	TOTAL OPERATING COSTS	UNIT COSTS $/M.G.	UNIT COSTS ¢/lb BOD
1969	98	16,327	167	9
1970	93	17,088	183	10
1971	86	18.472	215	13
1972	96	17,786	186	12
1973	95	30,566	321	21
1974	115	20,288	175	13

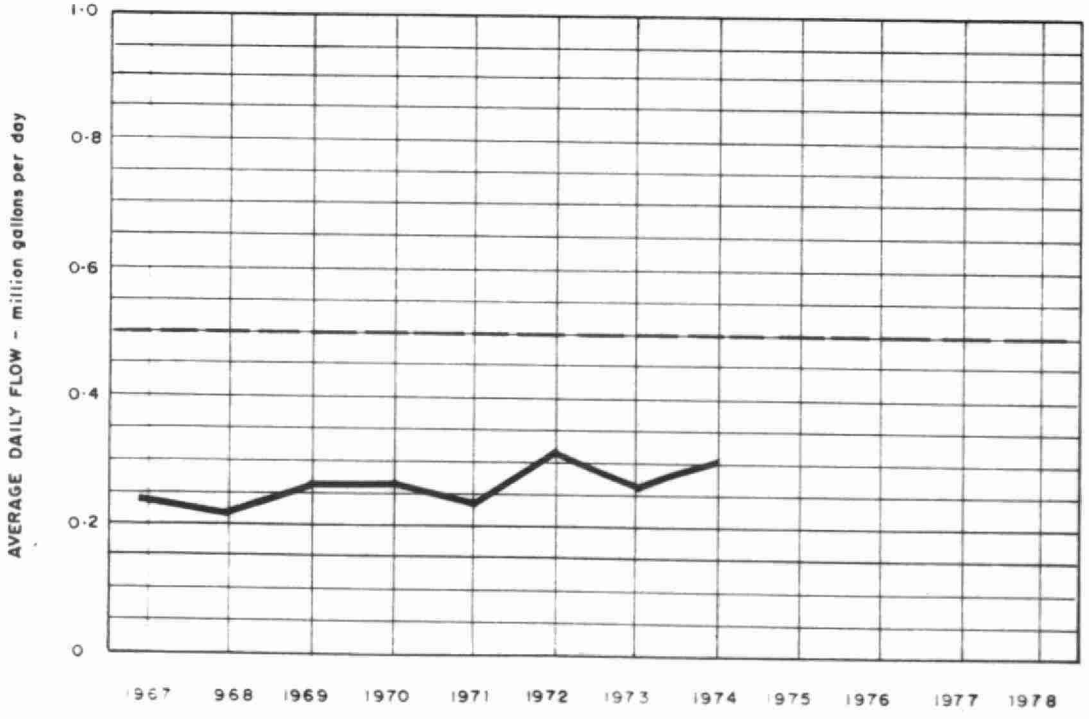
OPERATING EXPENDITURES

Regular Staff	$ 12,446	
Casual (Unclassified) Staff	849	
TOTAL SALARIES AND WAGES		13,295
TOTAL EMPLOYEE BENEFITS		1,300
TOTAL TRANSPORTATION AND COMMUNICATIONS		1,302
Insurance	698	
Sludge Haulage	479	
Repairs and Maintenance	170	
Other Services	15	
TOTAL SERVICES		1,362
Machinery and Equipment	824	
Chemicals	-2,199	
Utilities	4,210	
Other Supplies and Equipment	194	
TOTAL SUPPLIES AND EQUIPMENT		3,029
TOTAL AQUISITION/CONSTRUCTION OF PHYSICAL ASSETS		-
TOTAL TRANSFER PAYMENTS		-
OTHER TRANSACTIONS		-
GRAND TOTAL	GRAND TOTAL	$ 20,288

PROCESS DATA

FLOWS



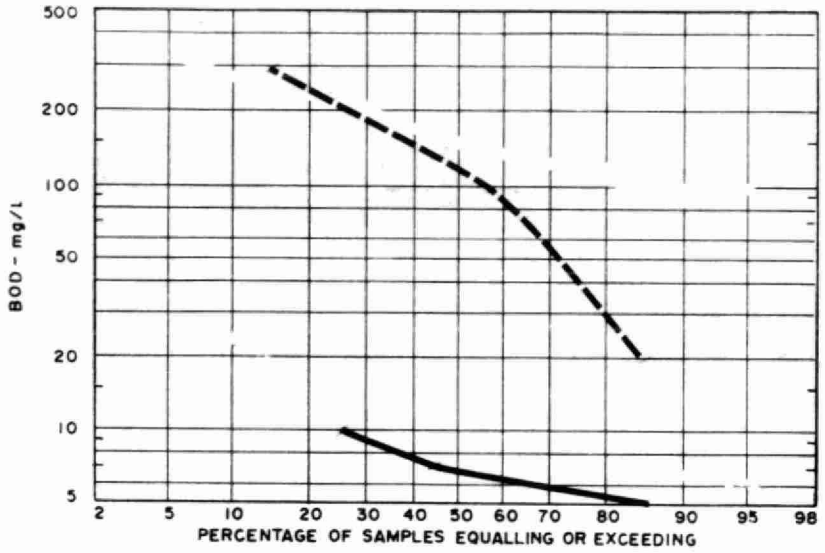


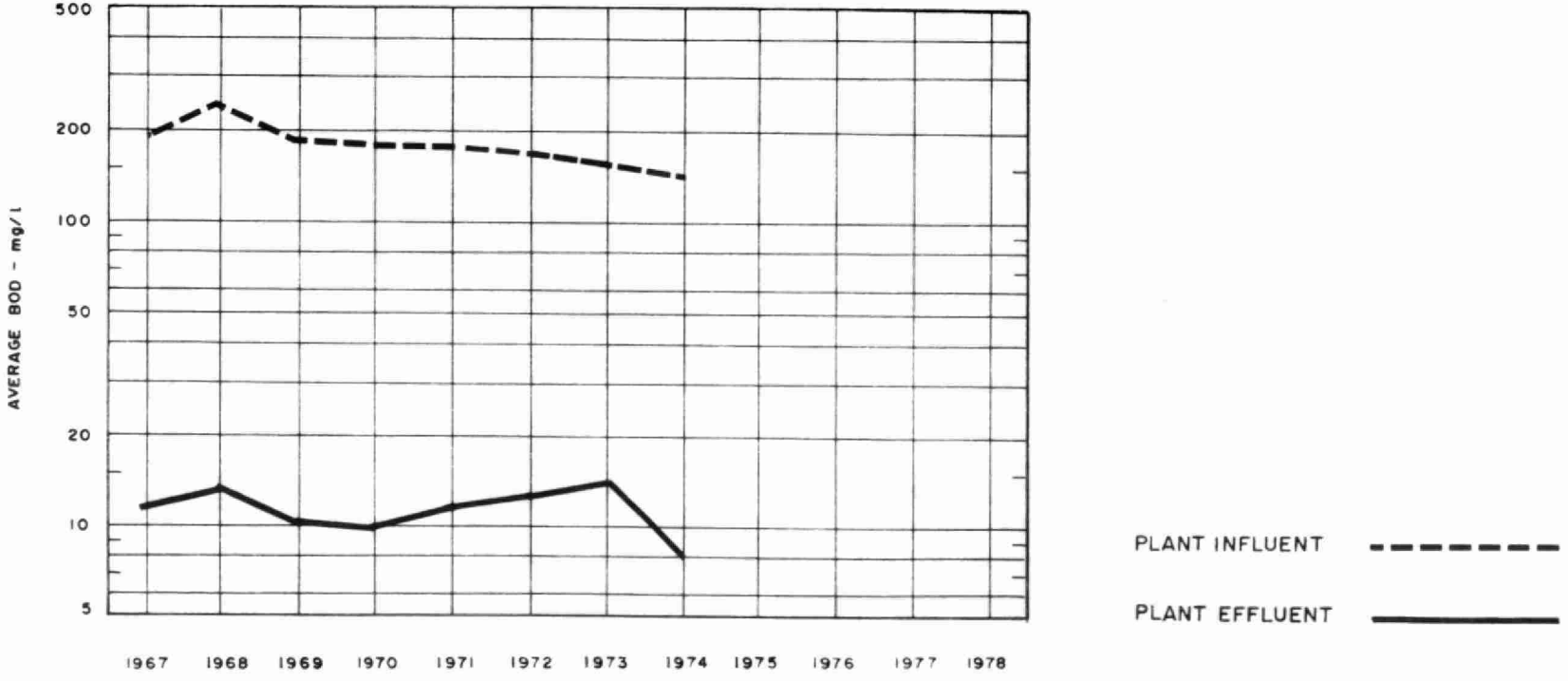
DESIGN CAPACITY _ _ _ _ _ _ _ _

PLANT PERFORMANCE

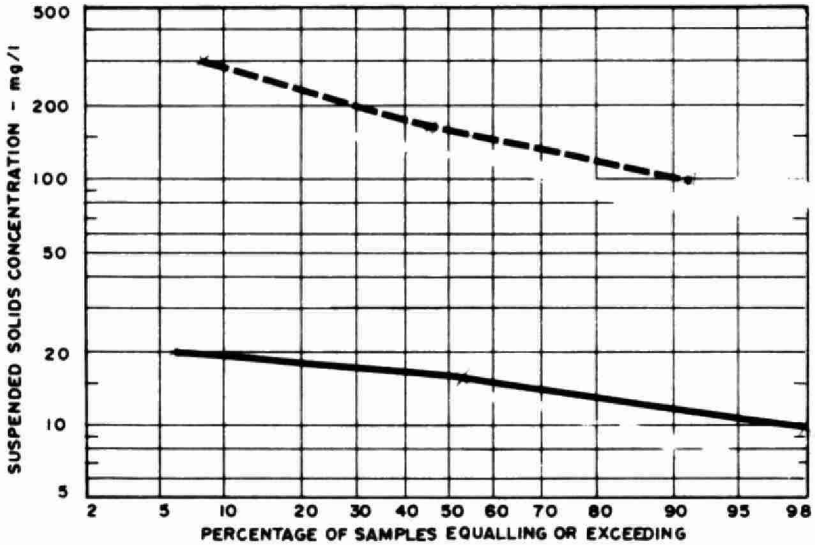
MONTH	FLOWS			BIOCHEMICAL OXYGEN DEMAND				SUSPENDED SOLIDS				PHOSPHORUS	
	TOTAL FLOW	AVERAGE DAY	MAXIMUM DAY	INFLUENT	EFFLUENT	REDUCTION		INFLUENT	EFFLUENT	REDUCTION		INFLUENT	EFFLUENT
	million gallons	mil. gal	mgd	mg/l	mg/l	%	10^3 pounds	mg/l	mg/l	%	10^3 pounds	mg/l P	mg/l P
JAN	10.18	.33	.57	265	10	96	26.0	217	18	92	20.2	7.4	.6
FEB	8.79	.31	.37	100	6	94	8.3	117	16	86	8.9	4.5	1.0
MAR	12.08	.39	1.00	75	6	92	8.3	172	17	90	18.7	4.5	1.0
APR	10.81	.36	.68	130	6	95	13.4	175	16	91	17.2	5.8	.9
MAY	11.19	.36	.57					100	10	90	10.0		
JUNE	8.74	.29	.35					233	15	94	19.0		
JULY	9.72	.31	.33					200	12	94	18.2		
AUG	7.77	.25	.36					153	15	15	10.7		
SEPT	8.80	.29	.34	26	7	73	1.7	154	16	90	12.0	4.5	.9
OCT	8.97	.29	.34					147	67	54	13.2		
NOV	9.53	.32	.40					157	15	90	13.5		
DEC	9.13	.29	.36					139	14	90	11.4		
TOTAL	115.71	-	-	-	-	-		-	-	-	177.0	-	-
AVG.		.32	MAXIMUM 1.00	143	8	94	13.0	169	16	91	14.7	5.7	.8
No. of Samples	-	-	-	6	6	-	-	51	215	-	-	6	6

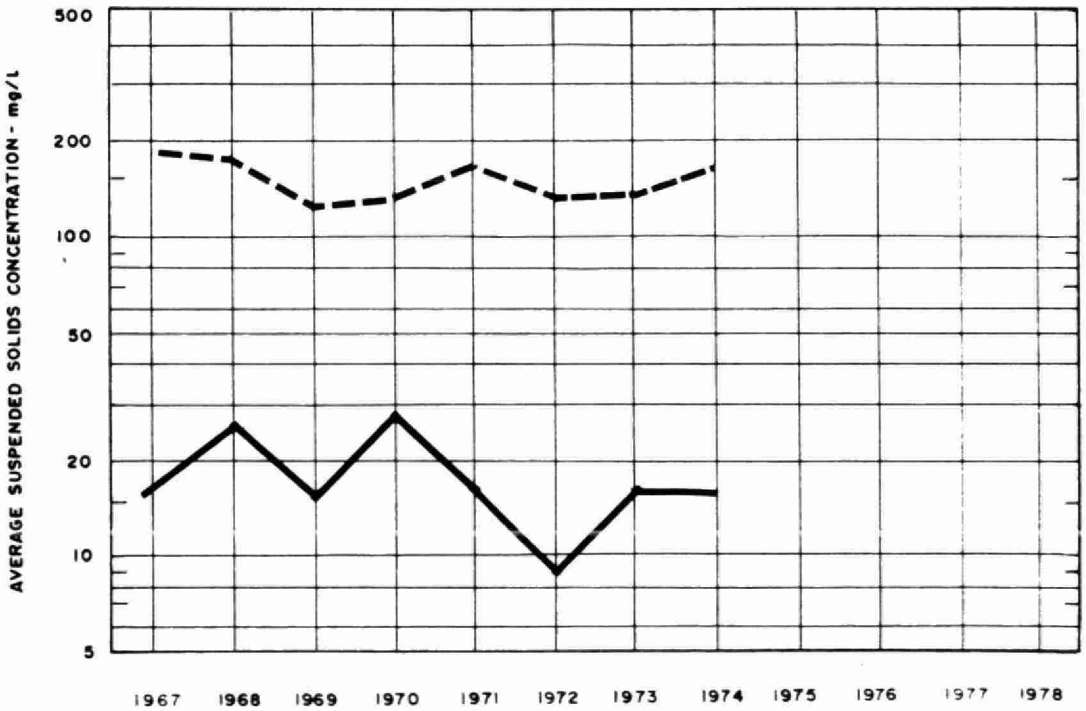
BIOCHEMICAL OXYGEN DEMAND





SUSPENDED SOLIDS

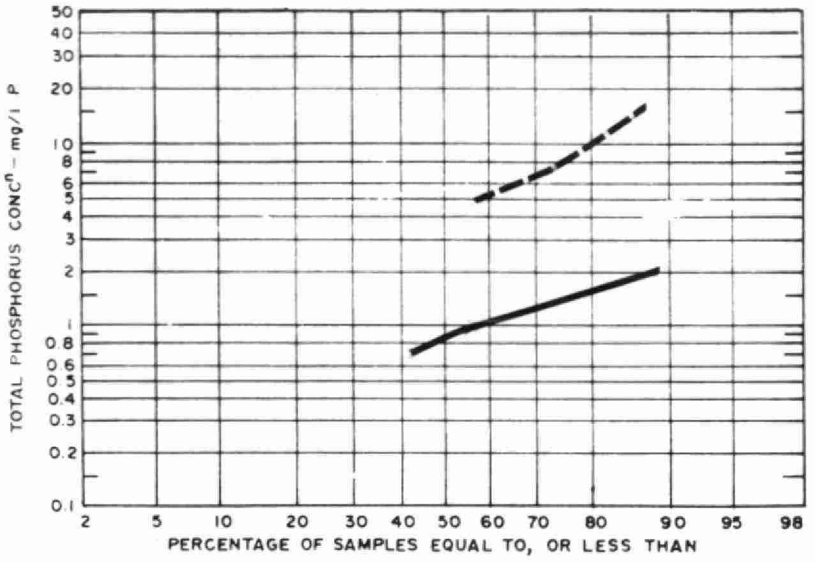


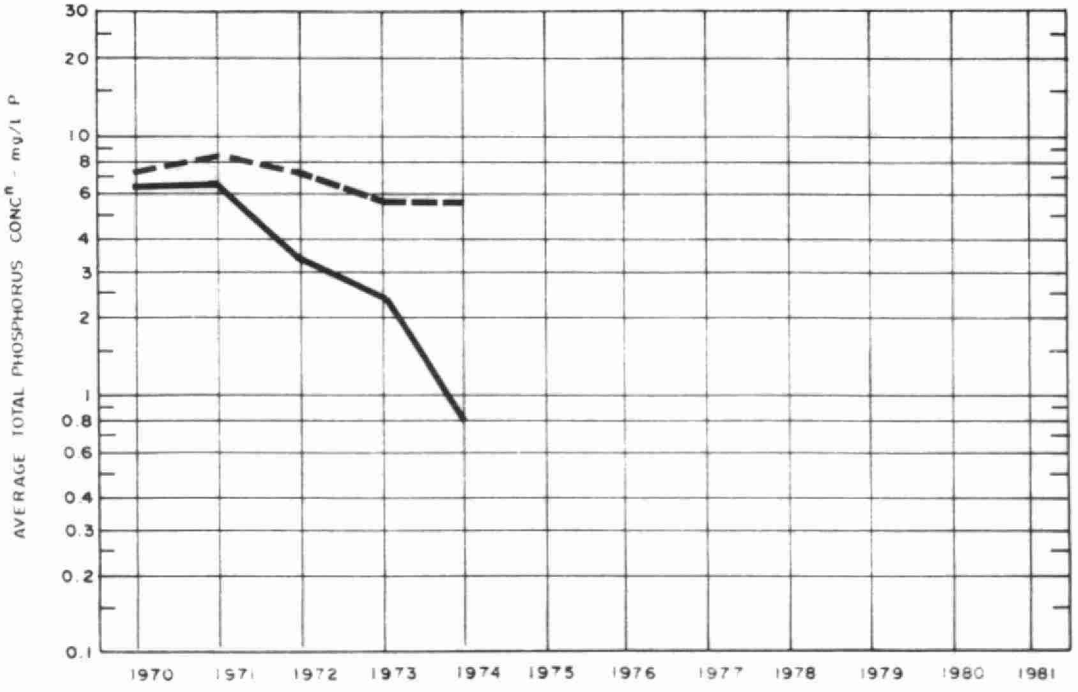


PLANT INFLUENT

PLANT EFFLUENT

PHOSPHORUS





PLANT INFLUENT

PLANT EFFLUENT

TREATMENT DATA

MONTH	GRIT	CHLORINATION		AERATION			WASTE SLUDGE			AEROBIC DIGESTER			
	QUANTITY REMOVED cubic feet	Cl_2 USED pounds	AVG. DOSAGE mg/l	MLSS CONC mg/l	F/M day^{-1}	AIR USED 1000 ft / lb BOD	QUANTITY 10 gallons	SUSPENDED SOLIDS mg/l	VOL. SOLIDS %	QUANTITY REMOVED 10 gallons	SUSPENDED SOLIDS mg/l	VOL. SOLIDS %	AMOUNT HAULED cubic yards
JAN	15	155	1.6	9400	.020			10000	81				
FEB	12	140	1.6	7600	.010			9900	77				
MAR	9	155	1.6	6400	.010			14000	73				
APR	15	150	1.4	6600	.020			15000	73				
MAY	9	155	1.3	7400									
JUNE	12	150	1.7	5900									
JULY	12	155	1.6	7400									
AUG	12	155	2.1	9200									
SEPT	12	150	1.7	9700	.002			11000	53				
OCT	15	155	1.9	9800									
NOV	9	150	1.6	10600									
DEC	6	155	2.1	10200									
TOTAL	138	1825	–	–	–	–		–	–		–	–	
AVG.	1.2 cu. ft/mil gal	152	1.6	8300	.012			12000	71				

Date Due

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